

# Clinical Infectious Diseases

Volume 35 • Number 1

1 July 2002

i 1 July News

## MAJOR ARTICLES

1 Nosocomial Spontaneous Bacterial Peritonitis and Bacteremia in Cirrhotic Patients: Impact of Isolate Type on Prognosis and Characteristics of Infection  
Bernard Campillo, Jean-Philippe Richardet, Tuan Kheo, and Catherine Dupeyron

11 Health-Related Quality of Life and Posttraumatic Stress Disorder among Survivors of an Outbreak of Legionnaires Disease  
Kamilla D. Lettinga, Annelies Verbon, Pythia T. Nieuwkerk, Rene E. Jonkers, Berthold P. R. Gersons, Jan M. Prins, and Peter Speelman

18 To Gown or Not to Gown: The Effect on Acquisition of Vancomycin-Resistant Enterococci  
Laura A. Puzniak, Terry Leet, Jennie Mayfield, Marin Kollef, and Linda M. Mundy

26 Practical Aspects of Choosing an Antibiotic for Patients with a Reported Allergy to an Antibiotic  
Joan L. Robinson, Tahir Hameed, and Stuart Carr

32 Pseudo-outbreak of *Mycobacterium fortuitum* on a Human Immunodeficiency Virus Ward: Transient Respiratory Tract Colonization from a Contaminated Ice Machine  
Kelly A. Gebo, Arjun Srinivasan, Trish M. Perl, Tracy Ross, Amy Groth, and William G. Merz

39 Validity of Self-Reporting of Episodes of External Genital Warts  
D. J. Wiley, Stella Grosser, Karen Qi, Barbara R. Visscher, Karl Beutner, Steffanie A. Strathdee, Bridget Calhoun, Frank Palella, and Roger Detels, for the Multicenter AIDS Cohort Study Group

46 The Diagnostic Accuracy of Kernig's Sign, Brudzinski's Sign, and Nuchal Rigidity in Adults with Suspected Meningitis  
Karen E. Thomas, Rodrigo Hasbun, James Jekel, and Vincent J. Quagliarello

## REVIEW ARTICLE

53 The Impact of Novel Immunosuppressive Agents on Infections in Organ Transplant Recipients and the Interactions of These Agents with Antimicrobials  
Shahid Husain and Nina Singh

## AGING AND INFECTIOUS DISEASES

62 Intra-abdominal Sepsis in Elderly Persons  
Yale D. Podnos, Juan Carlos Jimenez, and Samuel E. Wilson

## HIV/AIDS

69 Long-Term Metabolic Consequences of Switching from Protease Inhibitors to Efavirenz in Therapy for Human Immunodeficiency Virus-Infected Patients with Lipoatrophy  
V. Estrada, N. G. P. de Villar, M. T. Martínez Larrad, A. González López, C. Fernández, and M. Serrano-Rios

77 Virus Load during Primary Human Immunodeficiency Virus (HIV) Type 1 Infection Is Related to the Severity of Acute HIV Illness in Kenyan Women  
Ludo Lavreys, Jared M. Baeten, Julie Overbaugh, Dana D. Pantaleeff, Bhavna H. Chohan, Barbra A. Richardson, Kishor Chandra Mandaliya, Jeckoniah O. Ndinya-Achola, and Joan K. Kreiss

82 Discordant Human Immunodeficiency Virus Type 1 Drug Resistance Mutations, Including K103N, Observed in Cerebrospinal Fluid and Plasma  
K. T. Tashima, T. P. Flanigan, J. Kurpewski, S. M. Melanson, and P. R. Skolnik

## BRIEF REPORTS

84 Suboptimal Measles-Mumps-Rubella Vaccination Coverage Facilitates an Imported Measles Outbreak in Ireland  
Suzie Coughlan, Jeff Connell, Bernard Cohen, Li Jin, and William W. Hall

87 Severe Pleuropulmonary Paragonimiasis 8 Years after Emigration from a Region of Endemicity  
Anne M. Meehan, Abinash Virk, Karen Swanson, and Eric M. Poeschl

91 Use of Liver Function Tests to Predict the Magnitude of an Outbreak of Hepatitis A  
Louisa Castrodale, Michael Beller, John Middaugh, Barbara McCumber, Kim Mynes-Spink, and Gail Bernth

93 Infections Associated with Use of the LifeSite Hemodialysis Access System  
John J. Ross, Geetha Narayan, Ellen K. Bergeron, Michael G. Worthington, and James A. Strom

96 Hypophyseal Hemorrhage and Panhypopituitarism during Puumala Virus Infection: Magnetic Resonance Imaging and Detection of Viral Antigen in the Hypophysis  
Timo Hautala, Tarja Sironen, Olli Vapalahti, Eija Pääkkö, Terttu Särkioja, Pasi I. Salmela, Antti Vaheri, Alexander Plyusnin, and Heikki Kauma

102 An Outbreak of Varicella among Children Attending Preschool and Elementary School in Illinois  
Mark S. Dworkin, Charles E. Jennings, Jayne Roth-Thomas, Jo Ellen Lang, Carol Stukenberg, and John R. Lumpkin

## CORRESPONDENCE

105 The Gastrointestinal Tract Is a Common Target of Invasive Aspergillosis in Patients Receiving Cytotoxic Chemotherapy for Hematological Malignancy  
Masahiro Kami, Akiko Hori, Yoichi Takaue, and Yoshitomo Mutou

106 Reply  
Yoshinari Myoken, Tatsumi Sugata, Tai-ichi Kyo, Megumu Fujihara, Tadahiro Kohara, Masakazu Katsu, Miki Tamura, and Yuzuru Mikami

107 Caspofungin versus Amphotericin B for the Treatment of Candidal Esophagitis  
Angel Chocarro Martínez, Anunciación González, and Isidra García

107 Reply  
Mark J. DiNubile and Carole A. Sable

108 Deep-Seated Trichosporonosis in an Immunocompetent Patient: A Case Report of Uterine Trichosporonosis—Correction  
Arvind A. Padhye, Leslie Hall, and Glenn D. Roberts

109 Reply  
Julius Wróblewski

110 Errata

## ELECTRONIC ARTICLES

### Nosocomial Infections with *Aeromonas hydrophila* from Leeches

Catherine Sartor, Frédérique Limouzin-Perotti, Régis Legré, Dominique Casanov, Marie-Claude Bongrand, Rolland Sambuc, and Michel Drancourt

### *Legionella pneumophila* Arthritis: Use of Medium Specific for Mycobacteria for Isolation of *L. pneumophila* in Culture of Articular Fluid Specimens

Pascale Bemer, Sophie Leautet, Emmanuel Ninin, Sophie Jarraud, François Raffi, and Henri Drugeon

### Localized Osteomyelitis Due to *Mycobacterium avium* Complex in Patients with Human Immunodeficiency Virus Receiving Highly Active Antiretroviral Therapy

Judith A. Aberg, Peter V. Chin-Hong, Allen McCutchan, Susan L. Koletar, and Judith S. Currier, for the AIDS Clinical Trials Group 362 and 393 Study Teams

Volume 35 • Number 2

15 July 2002

i 15 July News

## IDSA GUIDELINES

113 Practice Guidelines for the Diagnosis and Management of Group A Streptococcal Pharyngitis  
Alan L. Bisno, Michael A. Gerber, Jack M. Gwaltney, Jr., Edward L. Kaplan, and Richard H. Schwartz

## **VIEWPOINTS**

**126 Diagnosis of Strep Throat in Adults: Are Clinical Criteria Really Good Enough?**  
Alan L. Bisno, Garnet S. Peter, and Edward L. Kaplan

## **MAJOR ARTICLES**

**130 Effect of Penicillin Resistance of *Streptococcus pneumoniae* on the Presentation, Prognosis, and Treatment of Pneumococcal Endocarditis in Adults**  
Esteban Martínez, Jose M. Miró, Benito Almirante, Jose M. Aguado, Pedro Fernandez-Viladrach, Manuel L. Fernandez-Guerrero, Jose L. Villanueva, Fernando Dronda, Alfonso Moreno-Torrico, Miguel Montejo, Pedro Linares, and Jose M. Gatell, for the Spanish Pneumococcal Endocarditis Study Group

**140 Broad Resistance Due to Plasmid-Mediated AmpC  $\beta$ -Lactamases in Clinical Isolates of *Escherichia coli***  
R. Odeh, S. Kelkar, A. M. Hujer, R. A. Bonomo, P. C. Schreckenberger, and J. P. Quinn

**146 Use of Molecular Techniques to Distinguish between Treatment Failure and Exogenous Reinfection with *Mycobacterium tuberculosis***  
Annika Krüüner, Lea Pehme, Solomon Ghebremichael, Tuija Koivula, Sven E. Hoffner, and Marika Mikelsaar

**156 Low Serum Procalcitonin Level Accurately Predicts the Absence of Bacteremia in Adult Patients with Acute Fever**  
Catherine Chirouze, Hélène Schuhmacher, Christian Rabaud, Helder Gil, Norbert Khayat, Jean-Marie Estavoyer, Thierry May, and Bruno Hoen

**162 Effectiveness of Acellular Pertussis Vaccine Assessed by Hospital-Based Active Surveillance in Germany**  
P. Juretzko, R. von Kries, M. Hermann, C. H. Wirsing von König, J. Weil, and G. Giani

**168 Efficacy of Intranasal Virosomal Influenza Vaccine in the Prevention of Recurrent Acute Otitis Media in Children**  
Paola Marchisio, Roberta Cavagna, Barbara Maspes, Stefania Gironi, Susanna Esposito, Lara Lambertini, Alessandra Massimini, Christian Herzog, and Nicola Principi

**175 Burden of Encephalitis-Associated Hospitalizations in the United States, 1988–1997**  
Nino Khetsuriani, Robert C. Holman, and Larry J. Anderson

## **TRAVEL MEDICINE**

**183 Japanese Encephalitis Vaccine for Travelers: Exploring the Limits of Risk**  
David R. Shlim and Tom Solomon

## **HIV/AIDS**

**189 Prospective Study of Measles in Hospitalized, Human Immunodeficiency Virus (HIV)-Infected and HIV-Uninfected Children in Zambia**  
William J. Moss, Mwaka Monze, Judith J. Ryon, Thomas C. Quinn, Diane E. Griffin, and Felicity Cutts

## **BRIEF REPORTS**

**197 Concomitant Risk Factors in Reports of Torsades de Pointes Associated with Macrolide Use: Review of the United States Food and Drug Administration Adverse Event Reporting System**  
Douglas Shaffer, Sarah Singer, Joyce Korvick, and Peter Honig

**201 Juvenile Human T Lymphotropic Virus Type 1-Associated Myelopathy**  
Alexandra P. Q. C. Araújo, Lucia M. C. Fontenelle, Paula A. B. Pádua, Heber S. Maia Filho, and Abelardo de Q. C. Araújo

**205 A Novel, Multiple Drug-Resistant, Serotype 24F Strain of *Streptococcus pneumoniae* That Caused Meningitis in Patients in Naples, Italy**  
Annalisa Pantosti, Giovanni Gherardi, Marco Conte, Francesco Faella, Giordano Dicuonzo, and Bernard Beall

## **CORRESPONDENCE**

**209 Why the AUC/MIC Ratio Should Not Be Used to Predict the Effects of  $\beta$ -Lactams**  
Johan W. Mouton

**210 Human Host Defense and Cytokines in Mycobacterial Infectious Diseases: Interleukin-18 Cannot Compensate for Genetic Defects in the Interleukin-12 System**  
Frank A. W. Verreck, Tjitske de Boer, Marieke Hoeve, Jaap T. van Dissel, Ozden Sanal, Masashi Kurimoto, and Tom H. M. Ottenhoff

**212 More Experience, but Not a New Experience**  
Miquel Falguera, Agustín Ruiz-González, and Antoni Nogués

212 **Pulmonary Tuberculosis Due to Multidrug-Resistant *Mycobacterium bovis* in a Healthy Host**  
Pablo Robles Ruiz, Jaime Esteban, and Manuel L. Fernández Guerrero

213 **Intradermal Regimens for Rabies Postexposure Prophylaxis: More Confusion**  
M. J. Warrell and D. A. Warrell

215 **Reply**  
Henry Wilde, Pakamatz Khawplod, Thiravat Hemachudha, and Visith Sitprija

215 **Is There Hope for the Prevention of Future Antimicrobial Shortages?**  
David N. Gilbert and John E. Edwards, Jr.

216 **Reply**  
David M. Shlaes

## 218 ELECTRONIC ARTICLES

**Nosocomial Bloodstream Infections in Finnish Hospitals during 1999–2000**  
O. Lyttikäinen, J. Lumio, H. Sarkkinen, E. Kolho, A. Kostiala, P. Ruutu, and the Hospital Infection Surveillance Team

***Brevibacterium* Endocarditis: A First Report**  
Krishna N. Dass, Margo A. Smith, Vee J. Gill, Steven A. Goldstein, and Daniel R. Lucey

**Chronic Disseminated *Trichosporon asahii* Infection in a Leukemic Child**  
M. H. Meyer, V. Letscher-Bru, J. Waller, P. Lutz, L. Marcellin, and R. Herbrecht

**Absence of Human Immunodeficiency Virus Infection after Intentional Injection of Infected Blood**  
Judith H. Aberle, Brigitte Schmied, Norbert Vetter, and Elisabeth Puchhammer-Stöckl

Volume 35 • Number 3

1 August 2002

## i 1 August News

## MAJOR ARTICLES

219 **Tuberculin Skin Testing Surveillance of Health Care Personnel**  
Adelisa L. Panlilio, Dale R. Burwen, Amy B. Curtis, Pamela U. Srivastava, John Bernardo, Michela T. Catalano, Meryl H. Mendelson, Peter Nicholas, William Pagano, Carol Sulis, Ida M. Onorato, and Mary E. Chamberland, for the Tuberculin Skin Testing Surveillance Project

228 **Risk Factors for Late-Onset Nosocomial Pneumonia Caused by *Stenotrophomonas maltophilia* in Critically Ill Trauma Patients**  
Scott D. Hanes, Kutay Demirkan, Elizabeth Tolley, Bradley A. Boucher, Martin A. Croce, G. Christopher Wood, and Timothy C. Fabian

236 **Injection Drug Use Facilitates Hepatitis C Virus Infection of Peripheral Blood Mononuclear Cells**  
Massimo Resti, Chiara Azzari, Maria Moriondo, Letizia Betti, Idanna Sforzi, Elio Novembre, and Alberto Vierucci

240 **Risk Factors Associated with *Helicobacter pylori* Infection among Children in a Defined Geographic Area**  
Maria P. Dore, Hoda M. Malaty, David Y. Graham, Giuseppe Fanciulli, Giuseppe Delitala, and Giuseppe Realdi

246 **Natural History of Human *Calicivirus* Infection: A Prospective Cohort Study**  
Barry Rockx, Matty de Wit, Harry Vennema, Jan Vinjé, Erwin de Bruin, Yvonne van Duynhoven, and Marion Koopmans

254 **Outcome of and Prognostic Factors for Herpes Simplex Encephalitis in Adult Patients: Results of a Multicenter Study**  
Franck Raschilas, Michel Wolff, Frédérique Delatour, Cendrine Chaffaut, Thomas De Broucker, Sylvie Chevret, Pierre Lebon, Philippe Canton, and Flore Rozenberg, for the French Herpes Simplex Encephalitis Study Group

261 **A Randomized, Double-Blind Study of the Efficacy of a 10- or 20-Day Course of Sodium Stibogluconate for Treatment of Cutaneous Leishmaniasis in United States Military Personnel**  
Glenn Wortmann, R. Scott Miller, Charles Oster, Joan Jackson, and Naomi Aronson

268 **Epidemiology of Invasive Group A *Streptococcus* Disease in the United States, 1995–1999**  
Katherine L. O'Brien, Bernard Beall, Nancy L. Barrett, Paul R. Cieslak, Arthur Reingold, Monica M. Farley, Richard Danila, Elizabeth R. Zell, Richard Facklam, Benjamin Schwartz, and Anne Schuchat, for the Active Bacterial Core Surveillance/Emerging Infections Program Network

277 Coagulation Abnormalities in Dengue Hemorrhagic Fever: Serial Investigations in 167 Vietnamese Children with Dengue Shock Syndrome

Bridget A. Wills, Emmanuelle E. Oragui, Alick C. Stephens, Olufunmilayo A. Daramola, Nguyen Minh Dung, Ha Thi Loan, Nguyen Vinh Chau, Mary Chambers, Kasia Stepniewska, Jeremy J. Farrar, and Michael Levin

## PHOTO QUIZ

286 Atypical Pneumonia in a Man with Acquired Immunodeficiency Syndrome

## AGING AND INFECTIOUS DISEASES

287 Osteomyelitis in Elderly Patients

Burke A. Cunha

## TRAVEL MEDICINE

294 Economic Evaluation of Immunization Strategies

Silvia M. Ess and Thomas D. Szucs

## EMERGING INFECTIONS

298 *Helicobacter pylori*: Consensus and Controversy

Douglas J. Passaro, E. Julia Chosy, and Julie Parsonnet

## HIV/AIDS

305 Human Immunodeficiency Virus in Correctional Facilities: A Review

Anne Spaulding, Becky Stephenson, Grace Macalino, William Ruby, Jennifer G. Clarke, and Timothy P. Flanigan

313 Does Patient Sex Affect Human Immunodeficiency Virus Levels?

Monica Gandhi, Peter Bacchetti, Paolo Miotti, Thomas C. Quinn, Fulvia Veronese, and Ruth M. Greenblatt

323 Comparative Analysis of Commercial Assays for the Detection and Quantification of Human Immunodeficiency Virus Type 1 (HIV-1) RNA in Plasma from Patients Infected with HIV-1 Subtype C

Craig J. Hoesley, Susan A. Allen, James L. Raper, R. Musonda, Yafen Niu, Feng Gao, Kathleen E. Squires, and Grace M. Aldrovandi

326 BK Virus–Associated Hemorrhagic Cystitis in a Human Immunodeficiency Virus–Infected Patient

Dan H. Barouch, William C. Faquin, Yiping Chen, Igor J. Koralnik, Gregory K. Robbins, and Benjamin T. Davis

330 Multifocal Vasculopathy Due to Varicella-Zoster Virus (VZV): Serial Analysis of VZV DNA and Intrathecal Synthesis of VZV Antibody in Cerebrospinal Fluid

Andreas Kronenberg, Reto Schupbach, Bernhard Schuknecht, Walter Bossart, Rainer Weber, Donald H. Gilden, and Roberto F. Speck

## ANSWER TO PHOTO QUIZ

334 Atypical Pneumonia in a Man with Acquired Immunodeficiency Syndrome

## BRIEF REPORTS

336 Furuncular Myiasis: A Simple and Rapid Method for Extraction of Intact *Dermatobia hominis* Larvae

Andrea K. Boggild, Jay S. Keystone, and Kevin C. Kain

339 Early Detection of Central Nervous System Tuberculosis with the Gen-Probe Nucleic Acid Amplification Assay: Utility in an Inner City Hospital

Cristina A. Baker, Charles P. Cartwright, David N. Williams, Susan M. Nelson, and Phillip K. Peterson

## CORRESPONDENCE

343 Garlic Supplements and Saquinavir

Carmia Borek

343 Reply

Judith Falloon, Keith D. Gallicano, Aaron H. Burstein, and Stephen C. Piscitelli

343 Prevention of Nosocomial Fungal Infection: The French Approach

Jean-Pierre Gangneux, Stéphane Bretagne, Catherine Cordonnier, Annick Datry, Francis Derouin, Renée Grillot, Catherine Kauffmann-Lacroix, Bernadette Lebeau, Odile Morin, Marie-Christine Nicolle, Marie-Antoinette Piens, and Jean-Louis Poirot

346 Reply

Elias Anaissie and Silvia Costa

**346 Role of Non-O157:H7 *Escherichia coli* in Hemolytic Uremic Syndrome**  
Paul N. Goldwater and Karl A. Bettelheim

**347 Reply**  
W. T. Andrew Todd and S. Dundas

**347 Linezolid-Induced Pancytopenia**  
Michele Halpern

**348 Thrombocytopenia Secondary to Linezolid Administration: What Is the Risk?**  
Joanne J. Orrick, Thomas Johns, Jennifer Janelle, and Reuben Ramphal

**349 Safety of *Lactobacillus* Strains as Probiotic Agents**  
Gregor Reid

**351 ELECTRONIC ARTICLES**

**Linezolid-Induced Pure Red Blood Cell Aplasia**  
Thomas Monson, Steven A. Schichman, and Clive S. Zent

**Staphylococcus lugdunensis Infection Sites: Predominance of Abscesses in the Pelvic Girdle Region**  
Richard Bellamy and Timothy Barkham

**Breakthrough Trichosporonosis in a Bone Marrow Transplant Recipient Receiving Caspofungin Acetate**  
Daniel Goodman, Eric Pamer, Ann Jakubowski, Carol Morris, and Kent Sepkowitz

Volume 35 • Number 4

15 August 2002

i 15 August News

**MAJOR ARTICLES**

**353 Surgical Site Infections in Orthopedic Surgery: The Effect of Mupirocin Nasal Ointment in a Double-Blind, Randomized, Placebo-Controlled Study**  
M. D. Kalmeijer, H. Coertjens, P. M. van Nieuwland-Bollen, D. Bogaers-Hofman, G. A. J. de Baere, A. Stuurman, A. van Belkum, and J. A. J. W. Kluytmans

**359 A Double-Blind, Randomized, Controlled Trial of Amphotericin B Colloidal Dispersion versus Amphotericin B for Treatment of Invasive Aspergillosis in Immunocompromised Patients**  
Raleigh Bowden, Pranatharthi Chandrasekar, Mary H. White, Xin Li, Larry Pietrelli, Marc Gurwith, Jo-Anne van Burik, Michel Laverdiere, Sharon Safrin, and John R. Wingard

**367 Editorial Commentary: New Agents for Treatment of Invasive Aspergillosis**  
Thomas F. Patterson

**370 Influence of High-Risk Medical Conditions on the Effectiveness of Influenza Vaccination among Elderly Members of 3 Large Managed-Care Organizations**  
Eelko Hak, James Nordin, Feifei Wei, John Mullooly, Sung Poblete, Raymond Strikas, and Kristin L. Nichol

**378 Editorial Commentary: If You Could Halve the Mortality Rate, Would You Do It?**  
Gregory A. Poland

**381 Once-Daily, High-Dose Levofloxacin versus Ticarcillin-Clavulanate Alone or Followed by Amoxicillin-Clavulanate for Complicated Skin and Skin-Structure Infections: A Randomized, Open-Label Trial**  
Donald R. Graham, David A. Talan, Ronald L. Nichols, Christopher Lucasti, Michael Corrado, Nancy Morgan, and Cynthia L. Fowler

**390 Nocardia Infection in Chronic Granulomatous Disease**  
Susan E. Dorman, Shireen V. Guide, Patricia S. Conville, Ellen S. DeCarlo, Harry L. Malech, John I. Gallin, Frank G. Witebsky, and Steven M. Holland

**395 Adverse and Beneficial Secondary Effects of Mass Treatment with Azithromycin to Eliminate Blindness Due to Trachoma in Nepal**  
A. M. Fry, H. C. Jha, T. M. Lietman, J. S. P. Chaudhary, R. C. Bhatta, J. Elliott, T. Hyde, A. Schuchat, B. Gaynor, and S. F. Dowell

**403 Seroprevalence of Measles, Rubella, and Varicella in Refugees**  
Elizabeth D. Barnett, Demian Christiansen, and Marisol Figueira

409 **Tuberculous Peritonitis—Associated Mortality Is High among Patients Waiting for the Results of Mycobacterial Cultures of Ascitic Fluid Samples**  
Kai Ming Chow, Viola Chi Ying Chow, Lawrence Cheung Tsui Hung, Shiu Man Wong, and Cheuk Chun Szeto

414 **Differences in Laboratory Findings for Cerebrospinal Fluid Specimens Obtained from Patients with Meningitis or Encephalitis Due to Herpes Simplex Virus (HSV) Documented by Detection of HSV DNA**  
Jeffry P. Simko, Angela M. Caliendo, Kay Hogle, and James Versalovic

420 **Association between Antimicrobial Resistance among Pneumococcal Isolates and Burden of Invasive Pneumococcal Disease in the Community**  
Julia Y. Morita, Elizabeth R. Zell, Richard Danila, Monica M. Farley, James Hadler, Lee H. Harrison, Lewis Lefkowitz, Arthur Reingold, Benjamin A. Kupronis, Anne Schuchat, and Cynthia G. Whitney

428 **Bacteriologic Findings Associated with Chronic Bacterial Maxillary Sinusitis in Adults**  
S. M. Finegold, M. J. Flynn, F. V. Rose, H. Jousimies-Somer, C. Jakielaszek, M. McTeague, H. M. Wexler, E. Berkowitz, and B. Wynne

## **REVIEW ARTICLE**

434 **Recent Advances in the Treatment of *Acanthamoeba* Keratitis**  
Raman Kumar and David Lloyd

## **VIEWPOINTS**

442 **Reports of Presumptive Brown Recluse Spider Bites Reinforce Improbable Diagnosis in Regions of North America Where the Spider Is Not Endemic**  
Richard S. Vetter and Sean P. Bush

## **TRAVEL MEDICINE**

446 **Schistosomiasis and International Travel**  
Manuel Corachan

## **SURFING THE WEB**

451 **Effective Retrieval of Lyme Disease Information on the Web**  
Sunil K. Sood

## **VACCINES**

465 **New Vaccines for the Prevention of Tuberculosis**  
C. Fordham von Reyn and Jenni M. Vuola

## **HIV/AIDS**

475 **Prospective, Intensive Study of Metabolic Changes Associated with 48 Weeks of Amprenavir-Based Antiretroviral Therapy**  
Michael P. Dubé, Dajun Qian, Hannah Edmondson-Melançon, Fred R. Sattler, Diane Goodwin, Carmen Martinez, Vanessa Williams, Debra Johnson, and Thomas A. Buchanan

482 **Comparison of Methodologies for Quantification of Hepatitis C Virus (HCV) RNA in Patients Coinfected with HCV and Human Immunodeficiency Virus**  
Kenneth E. Sherman, Susan D. Rouster, and Paul S. Horn

488 **Serious Bradyarrhythmia That Was Possibly Induced by Lopinavir-Ritonavir in 2 Patients with Acquired Immunodeficiency Syndrome**  
Yoshimi Kikuchi, Ikumi Genka, Azumi Ishizaki, Keishin Sunagawa, Akira Yasuoka, and Shinichi Oka

491 **Immune Reconstitution Syndrome after Successful Treatment of *Pneumocystis carinii* Pneumonia in a Man with Human Immunodeficiency Virus Type 1 Infection**  
Christine E. Koval, Francis Gigliotti, Diana Nevins, and Lisa M. Demeter

## **CORRESPONDENCE**

494 **Infection Due to Non-*Aspergillus* Fungi in Immunocompromised Patients Receiving Itraconazole**  
Yoshinari Myoken, Tatsumi Sugata, and Yuzuru Mikami

495 **Reply**  
Kenrad E. Nelson, Suwat Chariyalertsak, Khuanchai Supparatpinyo, and Thira Sisisanthana

495 Variable Number Tandem Repeat Polymorphism of the Interleukin-1 Receptor Antagonist Gene in Meningococcal Disease  
E. D. Carroll, K. J. Mobbs, A. P. J. Thomson, and C. A. Hart

## BOOK REVIEWS

498 *Candida and Candidiasis*  
Edited by Richard A. Calderone  
Reviewed by John N. Greene

499 *Immunology of Infectious Diseases*  
Edited by Stefan H. E. Kaufmann, Alan Sher, and Rafi Ahmed  
Reviewed by Lee M. Wetzler

500 New Books Received

## 501 ELECTRONIC ARTICLES

Reactivation of Retinal Toxoplasmosis Despite Evidence of Immune Response to Highly Active Antiretroviral Therapy  
Jason E. Stout, James C. Lai, Julia Giner, and Carol Dukes Hamilton

*Corynebacterium minutissimum* Bacteremia in an Immunocompetent Host with Cellulitis  
Alexander B. Granok, Patti Benjamin, and Lee S. Garrett

Volume 35 • Number 5

1 September 2002

i 1 September News

## IDSA GUIDELINES

503 Guidelines for Quality Standards for Immunization  
Pierce Gardner, Larry K. Pickering, Walter A. Orenstein, Anne A. Gershon, and Kristin L. Nichol

## MAJOR ARTICLES

512 Encephalitis and Encephalopathy Associated with an Influenza Epidemic in Japan  
Tsuneo Morishima, Takehiro Togashi, Shyumpei Yokota, Yoshinobu Okuno, Chiaki Miyazaki, Masato Tashiro, Nobuhiko Okabe, and the Collaborative Study Group on Influenza-Associated Encephalopathy in Japan

518 Markers of Viral Infection in Monozygotic Twins Discordant for Chronic Fatigue Syndrome  
David M. Koelle, Serge Baryc, Meei-Li Huang, Rhoda L. Ashley, Lawrence Corey, Judy Zeh, Suzanne Ashton, and Dedra Buchwald

526 High Levels of Adenovirus DNA in Serum Correlate with Fatal Outcome of Adenovirus Infection in Children after Allogeneic Stem-Cell Transplantation  
Marco W. Schilham, Eric C. Claas, Wouter van Zaane, Bianca Heemskerk, Jaak M. Vossen, Arjan C. Lankester, Rene E. Toes, Marcela Echavarria, Aloys C. Kroes, and Maarten J. van Tol

533 Legionnaires Disease with Bacteremic Coinfection  
Michael J. Tan, James S. Tan, and Thomas M. File, Jr.

540 Viral Etiology of Frequently Recurring Respiratory Tract Infections in Children  
Johanna Nokso-Koivisto, Anne Pitkäranta, Soile Blomqvist, Jukka Jokinen, Marijana Kleemola, Aino Takala, Terhi Kilpi, and Tapio Hovi

547 Historical Changes in Pneumococcal Serogroup Distribution: Implications for the Era of Pneumococcal Conjugate Vaccines  
Daniel R. Feikin and Keith P. Klugman

556 Failure of Macrolide Antibiotic Treatment in Patients with Bacteremia Due to Erythromycin-Resistant *Streptococcus pneumoniae*  
John R. Lonks, Javier Garau, Lucía Gomez, Mariona Xercavins, Anna Ochoa de Echagüen, Ilana F. Gareen, Philip T. Reiss, and Antone A. Medeiros

565 Editorial Commentary: *In Vivo Veritas: In Vitro Macrolide Resistance in Systemic Streptococcus pneumoniae Infections Does Result in Clinical Failure*  
Michael R. Jacobs

570 Association between the Presence of Enterococcal Virulence Factors Gelatinase, Hemolysin, and Enterococcal Surface Protein and Mortality among Patients with Bacteremia Due to *Enterococcus faecalis*  
Emanuel N. Vergis, Nathan Shankar, Joseph W. Chow, Mary K. Hayden, David R. Snydman, Marcus J. Zervos, Peter K. Linden, Marilyn M. Wagener, and Robert R. Muder

576 *Trichomonas vaginalis* Polymerase Chain Reaction Compared with Standard Diagnostic and Therapeutic Protocols for Detection and Treatment of Vaginal Trichomoniasis  
Karen A. Wendel, Emily J. Erbelding, Charlotte A. Gaydos, and Anne M. Rompalo

581 Noninvasive Management of Indian Visceral Leishmaniasis: Clinical Application of Diagnosis by K39 Antigen Strip Testing at a Kala-azar Referral Unit  
S. Sundar, M. Sahu, H. Mehta, A. Gupta, U. Kohli, M. Rai, J. D. Berman, and H. W. Murray

#### VIEWPOINTS

587 Women Gave Birth to the Stethoscope: Laennec's Introduction of the Art of Auscultation of the Lung  
Haragopal Thadepalli

#### PHOTO QUIZ

589 A Newborn with Rash and Chorioretinitis

#### VACCINES

590 Influenza Pandemic Preparedness Action Plan for the United States: 2002 Update  
Raymond A. Strikas, Gregory S. Wallace, and Martin G. Myers

#### HEALTHCARE EPIDEMIOLOGY

597 Infection Control for Gene Therapy: A Busy Physician's Primer  
Martin E. Evans and Judith A. Lesnaw

#### HIV/AIDS

606 AIDS Drug Assistance Programs: Highlighting Inequities in Human Immunodeficiency Virus–Infection Health Care in the United States  
Rochelle P. Walensky, A. David Paltiel, and Kenneth A. Freedberg

611 Human Immunodeficiency Virus (HIV)–Specific Antibody in Cervicovaginal Lavage Specimens Obtained from Women Infected with HIV Type 1  
Selvi B. Williams, Timothy P. Flanigan, Susan Cu-Uvin, Kenneth Mayer, Pepper Williams, Christopher A. Ettore, Andrew W. Artenstein, Ann Duerr, and Thomas C. VanCott

618 Antenatal Vitamin A Supplementation Increases Birth Weight and Decreases Anemia among Infants Born to Human Immunodeficiency Virus–Infected Women in Malawi  
Newton Kumwenda, Paolo G. Miotti, Taha E. Taha, Robin Broadhead, Robert J. Biggar, J. Brooks Jackson, George Melikian, and Richard D. Semba

#### ANSWER TO PHOTO QUIZ

625 A Newborn with Rash and Chorioretinitis

#### BRIEF REPORT

627 Secular Trend of Hospital-Acquired Candidemia among Intensive Care Unit Patients in the United States during 1989–1999  
W. E. Trick, S. K. Fridkin, J. R. Edwards, R. A. Hajjeh, R. P. Gaynes, and the National Nosocomial Infections Surveillance System Hospitals

#### CORRESPONDENCE

631 Effect of Highly Active Antiretroviral Therapy on Ischemic Cardiovascular Disease in Patients with HIV-1 Infection  
Donato Torre, Agostino Pugliese, and Giancarlo Orofino

632 Doxycycline for Treatment of Community-Acquired Pneumonia  
James R. Johnson

632 Reply  
Fernando J. Martinez, Joseph P. Lynch III, and Thomas M. File, Jr.

633 **Schizophrenia after Prenatal Exposure to *Toxoplasma gondii*?**  
Jean-Paul Seltén and René S. Kahn

634 **Malnutrition and Pulmonary Tuberculosis**  
Ryland P. Byrd, Jr., Jay B. Mehta, and Thomas M. Roy

635 **Reply**  
Kris K. Oursler and Richard E. Chaisson

636 **Thrombotic Thrombocytopenic Purpura Associated with a Hepatic Abscess Due to *Actinomyces turicensis***  
Douglas L. Riegert-Johnson, Nicole Sandhu, S. Vincent Rajkumar, and Robin Patel

#### BOOK REVIEW

638 **Bacterial Pathogenesis: A Molecular Approach, Second Edition**

Written by Abigail A. Salyers and Dixie D. Whitt  
Reviewed by Ira Schwartz

639 **New Books Received**

640 **Erratum**

641 **ELECTRONIC ARTICLES**

**Disseminated Acanthamebiasis in a Renal Transplant Recipient with Osteomyelitis and Cutaneous Lesions:**

**Case Report and Literature Review**

Jordan P. Steinberg, Rene L. Galindo, Edward S. Kraus, and Khalil G. Ghanem

**Intracranial Perineural Extension of Invasive Mycosis: A Novel Mechanism of Disease Propagation by *Aspergillus fumigatus***

Amar Safdar, Martin P. Dommers, Jr., Rohit Talwani, and Charlotte R. Thompson

**Invasive Pulmonary Filamentous Fungal Infection in a Patient Receiving Inhaled Corticosteroid Therapy**  
Elvis Peter, Faris Bakri, Donna M. Ball, Richard T. Cheney, and Brahm H. Segal

**Indinavir-Induced Cholelithiasis in a Patient Infected with Human Immunodeficiency Virus**  
Renaud Verdon, Michel Daudon, Françoise Albessard, Jean-Louis Brefort, and Claude Bazin

Volume 35 • Supplement 1

1 September 2002

#### 2001: AN ANAEROBE ODYSSEY

#### A Celebration of Dr. Sydney M. Finegold's 80th Birthday

S1 **Introduction and Dedication**

Ellie J. C. Goldstein and Diane M. Citron

S3 **Lifetime Highlights: Sydney M. Finegold, MD**

S4 **Abbreviated Curriculum Vitae: Sydney M. Finegold, MD**

S6 **Gastrointestinal Microflora Studies in Late-Onset Autism**

Sydney M. Finegold, Denise Molitoris, Yuli Song, Chengxu Liu, Marja-Liisa Vaisanen, Ellen Bolte, Maureen McTeague, Richard Sandler, Hannah Wexler, Elizabeth M. Marlowe, Matthew D. Collins, Paul A. Lawson, Paula Summanen, Mehmet Baysallar, Thomas J. Tomzynski, Erik Read, Eric Johnson, Rial Rolfe, Palwasha Nasir, Haroun Shah, David A. Haake, Patricia Manning, and Ajay Kaul

#### MICROBIOLOGY SECTION

S17 **Recent Taxonomic Changes and Terminology Update of Clinically Significant Anaerobic Gram-Negative Bacteria (Excluding Spirochetes)**  
Hannele Jousimies-Somer and Paula Summanen

S22 **Update on the Taxonomy and Clinical Aspects of the Genus *Fusobacterium***  
Diane M. Citron

**S28 Evolution of Anaerobe Susceptibility Testing in the United States**  
David W. Hecht

**S36 Multilaboratory Comparison of Growth Characteristics for Anaerobes, Using 5 Different Agar Media**  
D. E. Roe, S. M. Finegold, D. M. Citron, E. J. C. Goldstein, H. M. Wexler, J. E. Rosenblatt, M. E. Cox, S. G. Jenkins, and D. W. Hecht

**S40 Multilaboratory Comparison of Anaerobe Susceptibility Results Using 3 Different Agar Media**  
D. E. Roe, S. M. Finegold, D. M. Citron, E. J. C. Goldstein, H. M. Wexler, J. E. Rosenblatt, M. E. Cox, S. G. Jenkins, and D. W. Hecht

**S47 Selection of Cefoxitin-Resistant *Bacteroides thetaiotaomicron* Mutants and Mechanisms Involved in  $\beta$ -Lactam Resistance**  
Hong Fang, Charlotta Edlund, Carl Erik Nord, and Maria Hedberg

**S54 The Status of Research on Anaerobes in Japan**  
Kazue Ueno, Naoki Kato, and Haru Kato

**S58 Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry and Proteomics: A New Era in Anaerobic Microbiology**  
Haroun N. Shah, Carrina J. Keys, Oliver Schmid, and Saheer E. Gharbia

**S65 Outer-Membrane Pore-Forming Proteins in Gram-Negative Anaerobic Bacteria**  
Hannah M. Wexler

**S72 DNA Probes and Primers in Dental Practice**  
Georg Conrads

**S78 Outcomes of Improved Anaerobic Techniques in Clinical Microbiology**  
Joan Barenfanger, Cheryl A. Drake, Jerry Lawhorn, Carla Kopec, and Robbin Killiam

**S84 Speculations on the Microbiology Laboratory of the Future**  
Ellen Jo Baron

## **CLINICAL SECTION**

**S88 Top Ten Publications of 2001**  
John G. Bartlett

**S93 The Role of Clostridial Toxins in the Pathogenesis of Gas Gangrene**  
Dennis L. Stevens and Amy E. Bryant

**S101 An Outbreak of Necrotizing Enterocolitis Associated with a Novel *Clostridium* Species in a Neonatal Intensive Care Unit**  
Michelle J. Alfa, Diane Robson, Maria Davi, Kathy Bernard, Paul Van Caeseele, and Godfrey K. M. Harding

**S106 Intra-Abdominal Anaerobic Infections: Bacteriology and Therapeutic Potential of Newer Antimicrobial Carbapenem, Fluoroquinolone, and Desfluoroquinolone Therapeutic Agents**  
Ellie J. C. Goldstein

**S112 Anaerobic Infections in the Surgical Patient: Microbial Etiology and Therapy**  
Charles E. Edmiston, Jr., Candace J. Krepel, Gary R Seabrook, and William G. Jochimsen

**S119 General Microbiology and In Vitro Susceptibility of Anaerobes Isolated from Complicated Skin and Skin-Structure Infections in Patients Enrolled in a Comparative Trial of Ertapenem Versus Piperacillin-Tazobactam**  
Ellie J. C. Goldstein, Diane M. Citron, C. Vreni Merriam, Yumi Warren, Kerin L. Tyrrell, and Richard M. Gesser

**S126 National Survey on the Susceptibility of *Bacteroides fragilis* Group: Report and Analysis of Trends for 1997–2000**  
D. R. Snydman, N. V. Jacobus, L. A. McDermott, R. Ruthazer, E. J. C. Goldstein, S. M. Finegold, L. J. Harrell, D. W. Hecht, S. G. Jenkins, C. Pierson, R. Venezia, J. Rihs, and S. L. Gorbach

**i 15 September News****MAJOR ARTICLES**

**643 Role of Cat-Scratch Disease in Lymphadenopathy in the Head and Neck**  
Gerd Jürgen Ridder, Carsten Christof Boedeker, Katja Technau-Ihling, Roland Grunow, and Anna Sander

**650 Tickborne Encephalitis in an Area of High Endemicity in Lithuania: Disease Severity and Long-Term Prognosis**  
Aukse Mickiene, Alvydas Laiškonis, Göran Günther, Sirkka Vene, Åke Lundkvist, and Lars Lindquist

**659 Aspergillosis: The Most Common Community-Acquired Pneumonia with Gram-Negative Bacilli as Copathogens in Stem Cell Transplant Recipients with Graft-versus-Host Disease**  
George J. Alangaden, M. Wahiduzzaman, Pranatharthi H. Chandrasekar, and the Bone Marrow Transplant Group

**665 Population-Based Surveillance for Postpartum Invasive Group A Streptococcus Infections, 1995–2000**  
Ilin Chuang, Chris Van Beneden, Bernard Beall, Anne Schuchat, and the Active Bacterial Core Surveillance/Emerging Infections Program Network

**671 Strains of *Staphylococcus aureus* Obtained from Drug-Use Networks Are Closely Linked**  
Bianca Quagliarello, Christian Cespedes, Maureen Miller, Aixa Toro, Peter Vavagiakis, Robert S. Klein, and Franklin D. Lowy

**678 Prospective Evaluation of a Model of Prediction of Invasive Bacterial Infection Risk among Children with Cancer, Fever, and Neutropenia**  
M. E. Santolaya, A. M. Alvarez, C. L. Avilés, A. Becker, J. Cofré, N. Enríquez, M. O’Ryan, E. Payá, C. Salgado, P. Silva, J. Tordecilla, M. Varas, M. Villarroel, T. Viviani, and M. Zubieta

**684 *Bartonella quintana* Bacteremia among Homeless People**  
C. Foucault, K. Barrau, P. Brouqui, and D. Raoult

**690 Adjunctive Intracolonic Vancomycin for Severe *Clostridium difficile* Colitis: Case Series and Review of the Literature**  
Anucha Apisarathanarak, Behzad Razavi, and Linda M. Mundy

**697 Hospital-Acquired Pneumococcal Bacteremia**  
Joan-Josep Canet, Natalia Juan, Mariona Xercavins, Núria Freixas, and Javier Garau

**703 Influence of Cytomegalovirus Seropositivity on Outcome after T Cell-Depleted Bone Marrow Transplantation: Contrasting Results between Recipients of Grafts from Related and Unrelated Donors**  
Ellen Meijer, Adriaan W. Dekker, Maja Rozenberg-Arska, Annemarie J. L. Weersink, and Leo F. Verdonck

**REVIEW ARTICLE**

**713 A Legacy in 20th-Century Medicine: Robert Allan Phillips and the Taming of Cholera**  
Stephen J. Savarino

**VIEWPOINTS**

**721 The Battle against Emerging Antibiotic Resistance: Should Fluoroquinolones Be Used to Treat Children?**  
Lionel A. Mandell, Lance R. Peterson, Richard Wise, David Hooper, Donald E. Low, Urs B. Schaad, Keith P. Klugman, and Patrice Courvalin

**PHOTO QUIZ**

**728 A 27-Year-Old Man with Soft-Tissue Swelling on the Scalp and Hypochondrium**

**AGING AND INFECTIOUS DISEASES**

**729 Current Strategies for Management of Influenza in the Elderly Population**  
Stefan Gravenstein and H. Edward Davidson

**EMERGING INFECTIONS**

**738 Emerging Epidemiology of Bat-Associated Cryptic Cases of Rabies in Humans in the United States**  
Sharon L. Messenger, Jean S. Smith, and Charles E. Rupprecht

## **FOOD SAFETY**

**748 Foodborne Viral Gastroenteritis: Challenges and Opportunities**  
Joseph S. Bresee, Marc-Alain Widdowson, Stephan S. Monroe, and Roger I. Glass

## **SURFING THE WEB**

**754 Hepatitis C Information on the World Wide Web**  
Adeel A. Butt

## **HIV/AIDS**

**760 Effects of Formulation and Dosing Strategy on Amprenavir Concentrations in the Seminal Plasma of Human Immunodeficiency Virus Type 1-Infected Men**  
Naumann I. Chaudry, Joseph J. Eron, Odin J. Naderer, Arlene S. Pereira, M. B. Wire, Susan A. Fiscus, and Angela D. M. Kashuba

## **ANSWER TO PHOTO QUIZ**

**763 A 27-Year-Old Man with Soft-Tissue Swelling on the Scalp and Hypochondrium**

## **BRIEF REPORTS**

**765 Disappearance of Trachoma from Western Nepal**  
Hem Jha, J. S. P. Chaudary, Ramesh Bhatta, Yinghui Miao, Susan Osaki-Holm, Bruce Gaynor, Michael Zegans, Mariko Bird, Elizabeth Yi, Karen Holbrook, John P. Whitcher, and Thomas Lietman

**769 A Randomized, Double-Blind, Placebo-Controlled Trial of Acetazolamide for the Treatment of Elevated Intracranial Pressure in Cryptococcal Meningitis**  
Paul N. Newton, Le Hung Thai, Nguyen Quoc Tip, Jennifer M. Short, Wirongrong Chierakul, Adul Rajanuwong, Punnee Pititsutthithum, Sanchai Chasombat, Benjaluck Phonrat, Wirach Maek-A-Nantawat, Reungsilp Teunadi, David G. Laloo, and Nicholas J. White

## **CORRESPONDENCE**

**773 Discrepant Results of 2 Screening Tests for Anti-HIV Antibody**  
Douglas F. Stickle, Samuel J. Pirruccello, Susan Swindells, and Steven H. Hinrichs

**774 Reply**  
Indira K. Hewlett, Xingxiang Li, and Jay S. Epstein

**775 Indications for Surgery for Elderly Patients with Infective Endocarditis**  
Pierre Tattevin, Anne-Claire Volatron, Stéphane Jouneau, Cédric Arvieux, and Christian Michelet

**775 A Case of Necrotizing Fasciitis Due to *Streptococcus pneumoniae* following Topical Administration of Nonsteroidal Anti-inflammatory Drugs**  
Mona Ben M'Rad and Christian Brun-Buisson

**776 Clusters of Cases of Invasive Aspergillosis in Transplant Units: Nosocomial Spread or Enhanced Virulence?**  
Jonathan Cohen

**776 Efavirenz-Associated Severe Hyperlipidemia**  
Fabrice Bonnet, Mojgan Bonarek, Sten de Witte, Jacques Beylot, and Philippe Morlat

**777 Eosinophilic Meningitis Due to *Angiostrongylus cantonensis***  
Rod Ellis-Pegler and Gareth Parry

**778 Prolonged Candidemia in Patients with Cancer**  
Amar Safdar, Emily W. Cross, Vishnu Chaturvedi, David S. Perlin, and Donald Armstrong

**780 Erratum**

**781 ELECTRONIC ARTICLES**

***Pythium insidiosum* Pleuropericarditis Complicating Pneumonia in a Child with Leukemia**  
John A. Heath, Timothy E. Kiehn, Arthur E. Brown, Michael P. LaQuaglia, Laurel J. Steinherz, Gonzalo Bearman, May Wong, and Peter G. Steinherz

**Concurrent Fecal Colonization with Extraintestinal Pathogenic *Escherichia coli* in a Homosexual Man with Recurrent Urinary Tract Infection and in His Male Sex Partner**  
James R. Johnson and Parissa Delavari

**Exogenous Cushing Syndrome Mimicking Human Immunodeficiency Virus Lipodystrophy**  
Samir K. Gupta and Michael P. Dubé

**Volume 35 • Number 7**

**1 October 2002**

**i 1 October News**

**MAJOR ARTICLES**

**783 Lack of Behavior Change after Disclosure of Hepatitis C Virus Infection among Young Injection Drug Users in Baltimore, Maryland**  
Danielle C. Ompad, Crystal M. Fuller, David Vlahov, David Thomas, and Steffanie A. Strathdee

**789 Insights into SEN Virus Prevalence, Transmission, and Treatment in Community-Based Persons and Patients with Liver Disease Referred to a Liver Disease Unit**  
Steve G. Wong, Daniele Primi, Hiroshige Kojima, Alessandra Sottini, Antonio Giulivi, Manna Zhang, Julia Uhanova, and Gerald Y. Minuk

**796 Risk of Tuberculin Skin Test Conversion among Health Care Workers: Occupational versus Community Exposure and Infection**  
Nina M. Larsen, Cara L. Biddle, Mark J. Sotir, Nancy White, Patricia Parrott, and Henry M. Blumberg

**802 Mycobacterium simiae Pseudo-outbreak Resulting from a Contaminated Hospital Water Supply in Houston, Texas**  
Hana M. El Sahly, Edward Septimus, Hanna Soini, Joshua Septimus, Richard J. Wallace, Xi Pan, Natalie Williams-Bouyer, James M. Musser, and Edward A. Graviss

**808 Large Epidemic of Adenovirus Type 4 Infection among Military Trainees: Epidemiological, Clinical, and Laboratory Studies**  
Shellie A. Kolavic-Gray, Leonard N. Binn, Jose L. Sanchez, Steven B. Cersovsky, Christina S. Polyak, Felicia Mitchell-Raymundo, Ludmila V. Asher, David W. Vaughn, Brian H. Feighner, and Bruce L. Innis

**819 Community-Acquired Methicillin-Resistant *Staphylococcus aureus* Infections in France: Emergence of a Single Clone That Produces Panton-Valentine Leukocidin**  
Philippe Dufour, Yves Gillet, Michèle Bes, Gerard Lina, François Vandenesch, Daniel Floret, Jerome Etienne, and Hervé Richet

**825 Randomized, Placebo-Controlled Trial of Atovaquone/Proguanil for the Prevention of *Plasmodium falciparum* or *Plasmodium vivax* Malaria among Migrants to Papua, Indonesia**  
Judith Ling, J. Kevin Baird, David J. Fryauff, Priyanto Sismadi, Michael J. Bangs, Mark Lacy, Mazie J. Barcus, Robert Gramzinski, Jason D. Maguire, Marti Kumusumangsih, Gerri B. Miller, Trevor R. Jones, Jeffrey D. Chulay, Stephen L. Hoffman, and the Naval Medical Research Unit 2 Clinical Trial Team

**834 Molecular Epidemiology of a Citywide Outbreak of Extended-Spectrum  $\beta$ -Lactamase-Producing *Klebsiella pneumoniae* Infection**  
John M. Quale, David Landman, Patricia A. Bradford, Melissa Visalli, Jayshree Ravishankar, Carlos Flores, David Mayorga, Kalyani Vangala, and Adedeyo Adedeji

**842 What Is the Relevance of Obtaining Multiple Blood Samples for Culture? A Comprehensive Model to Optimize the Strategy for Diagnosing Bacteremia**  
Brigitte Lamy, Pascal Roy, Gérard Carret, Jean-Pierre Flandrois, and Marie Laure Delignette-Muller

**CONFRONTING BIOLOGICAL WEAPONS**

**851 Management of Anthrax**  
John G. Bartlett, Thomas V. Inglesby, Jr., and Luciana Borio

**FOOD SAFETY**

**859 Bacterial Contamination of Animal Feed and Its Relationship to Human Foodborne Illness**  
John A. Crump, Patricia M. Griffin, and Frederick J. Angulo

**IMMUNOCOMPROMISED HOSTS**

**866 Ganciclovir-Resistant Cytomegalovirus in Organ Transplant Recipients**  
Ajit P. Limaye

## HIV/AIDS

873 Review of the Effect of Highly Active Antiretroviral Therapy on Hepatitis C Virus (HCV) RNA Levels in Human Immunodeficiency Virus and HCV Coinfection  
Curtis L. Cooper and D. William Cameron

880 Human Herpesvirus 8-Positive Castleman Disease in Human Immunodeficiency Virus-Infected Patients: The Impact of Highly Active Antiretroviral Therapy  
Laurent Aaron, Olivier Lidove, Cherine Yousry, Laurent Roudiere, Bertrand Dupont, and Jean Paul Viard

883 Antiretroviral Drug Resistance Mutations in Antiretroviral-Naive Prisoners  
David R. Stone, Colleen Corcoran, Alysse Wurcel, Barbara McGovern, James Quirk, Arthur Brewer, Lorraine Sutton, and Richard T. D'Aquila

## BRIEF REPORT

887 Diagnosis and Treatment of *Aspergillus flavus* Sternal Wound Infections after Cardiac Surgery  
S. J. Vandecasteele, J. R. Boelaert, P. Verrelst, E. Graulus, and B. Z. Gordts

## EDITORIAL COMMENTARY

891 Lipid Formulations of Amphotericins: Are You a Lumper or a Splitter?  
John R. Wingard

## CORRESPONDENCE

896 Lipid Formulations of Amphotericin B for Empirical Treatment of Fever and Neutropenia  
Richard Frothingham

897 Reply  
Walter Hughes, Donald Armstrong, Gerald Bodey, Eric Bow, Arthur Brown, Thierry Calandra, Ronald Feld, Philip Pizzo, Kenneth Rolston, Jerry Shenep, and Lowell Young

898 Mortality Associated with Breakthrough Candidemia among Patients with and Those without Cancer  
Vladimir C. Krcmery, Jr., and Robert Babels

899 Reply  
O. Uzun, S. Ascioglu, E. J. Anaissie, and J. H. Rex

900 Patients with Bacteremia Who Were Discharged from the Emergency Department  
Josep Mòdol, Pere Tudela, Miquel Sabrià, and Aina Veny

900 Reply  
David Raveh, Yechiel Schlesinger, Bernard Rudensky, Shmuel Benenson, Nathan P. Gottehrer, and Amos M. Yinnon

901 Colistin: An Antimicrobial for the 21st Century?  
Andreas Stein and Didier Raoult

902 Stevens-Johnson Syndrome Associated with Abacavir Therapy  
Philippe Bossi, Jean Claude Roujeau, François Bricaire, and Eric Caumes

902 Successful Treatment of *Enterococcus faecalis* Prosthetic Valve Endocarditis with Linezolid  
Nalini Rao and Gregory J. White

## BOOK REVIEW

905 Legionella  
Edited by Reinhard Marre, Yousef Abu Kwaik, Christopher Bartlett, Nicholas P. Cianciotto, Barry S. Fields, Matthias Frosch, Jörg Hacker, and Paul Christian Lück  
Reviewed by Mark Shelly

906 Errata

## ELECTRONIC ARTICLES

Central Venous Catheter-Related Bacteremia Due to *Tsukamurella* Species in the Immunocompromised Host: A Case Series and Review of the Literature  
M. A. Schwartz, S. R. Tabet, A. C. Collier, C. K. Wallis, L. C. Carlson, T. T. Nguyen, M. M. Kattar, and M. B. Coyle

**Voriconazole Treatment of Disseminated *Paecilomyces* Infection in a Patient with Acquired Immunodeficiency Syndrome**

Craig A. Martin, Sara Roberts, and Richard N. Greenberg

Volume 35 • Number 8

15 October 2002

i 15 October News

**MAJOR ARTICLES**

909 Cutaneous Infection by *Fusarium* Species in Healthy and Immunocompromised Hosts: Implications for Diagnosis and Management  
Marcio Nucci and Elias Anaissie

921 Infectious Outbreaks Associated with Bivalve Shellfish Consumption: A Worldwide Perspective  
Israel Potasman, Alona Paz, and Majed Odeh

929 *Pneumocystis carinii* Pneumonia in Critically Ill Patients with Malignancy: A Descriptive Study  
J. R. Zahar, M. Robin, E. Azoulay, F. Fieux, G. Nitenberg, and B. Schlemmer

935 Effect of Gastrointestinal Bleeding and Oral Medications on Acquisition of Vancomycin-Resistant *Enterococcus faecium* in Hospitalized Patients  
Yesim Cetinkaya, Pamela S. Falk, and C. Glen Mayhall

943 An Outbreak of Febrile Gastroenteritis Associated with Delicatessen Meat Contaminated with *Listeria monocytogenes*  
Douglas M. Frye, Rachael Zweig, Joan Sturgeon, Michael Tormey, Michelle LeCavalier, Irene Lee, Leonard Lawani, and Laurene Mascola

950 Prevention of Invasive Group A Streptococcal Disease among Household Contacts of Case Patients and among Postpartum and Postsurgical Patients: Recommendations from the Centers for Disease Control and Prevention  
The Prevention of Invasive Group A Streptococcal Infections Workshop Participants

960 Oral Ganciclovir for Treatment of Lamivudine-Resistant Hepatitis B Virus Infection: A Pilot Study  
Hakan Bozkaya, Cihan Yurdaydin, Abdullah Mithat Bozdayi, Ozlem Erkan, Selim Karayalcin, and Ozden Uzunalimoglu

966 Detection of Hepatitis C Virus (HCV) RNA in Normal Cervical Smears of HCV-Seropositive Patients  
Mahmood Manavi, Mehrdad Baghestanian, Thomas Watkins-Riedel, Walter Battistutti, Kerstin Pischinger, Christian Schatten, Eveline Witschko, Gernot Hudelist, Hanns Hofmann, and Klaus Czerwenka

974 The Pathogenesis of Hepatitis C Virus Is Influenced by Cytomegalovirus  
Raymund R. Razonable, Kelly W. Burak, Hester van Cruyse, Robert A. Brown, Michael R. Charlton, Thomas F. Smith, Mark J. Espy, Walter Kremers, Jennie A. Wilson, Cynthia Groettum, Russell Wiesner, and Carlos V. Paya

**VIEWPOINTS**

982 Has Antifungal Susceptibility Testing Come of Age?  
John H. Rex and Michael A. Pfaller

**EMERGING INFECTIONS**

990 Infection Due to *Legionella* Species Other Than *L. pneumophila*  
Robert R. Muder and Victor L. Yu

**IMMUNOCOMPROMISED HOSTS**

999 Prevention of Cytomegalovirus Disease in Hematopoietic Stem Cell Transplantation  
John A. Zaia

**HIV/AIDS**

1005 Long-Term Outcomes among Antiretroviral-Naive Human Immunodeficiency Virus-Infected Patients with Small Increases in CD4<sup>+</sup> Cell Counts after Successful Virologic Suppression  
Fernando Dronda, Santiago Moreno, Ana Moreno, José L. Casado, María J. Pérez-Elías, and Antonio Antela

**1010 Sexually Transmitted Diseases and Human Immunodeficiency Virus—Discordant Partnerships among Men Who Have Sex with Men**

William L. H. Whittington, Tarquin Collis, Dwyn Dithmer-Schreck, H. Hunter Handsfield, Peter Shalit, Robert W. Wood, King K. Holmes, and Connie L. Celum

**BRIEF REPORT**

**1018 Endocarditis Caused by Methicillin-Resistant *Staphylococcus aureus*: Treatment Failure with Linezolid**

Maria E. Ruiz, Isabel C. Guerrero, and Carmelita U. Tuazon

**CORRESPONDENCE**

**1021 Removal of Central Venous Catheters from Patients with Candidemia**

Luca Lazzarini and Roberto Luzzati

**1022 Reply**

Marcio Nucci and Elias J. Anaissie

**1022 Central Venous Catheters as a Risk Factor for Disseminated Phaeohyphomycosis?**

Anthony LaRocco, Jr. and R. Craig Netzer

**1023 Reply**

Sanjay G. Revankar, Jan Patterson, Deanna A. Sutton, and Michael G. Rinaldi

**BOOK REVIEW**

**1025 The Human Immunodeficiency Virus: Biology, Immunology, and Therapy**

Edited by Emilio A. Emini

Reviewed by Joseph C. Chan

**1026 ELECTRONIC ARTICLES**

**A Newborn with Domestically Acquired Legionnaires Disease Confirmed by Molecular Typing**

Kirsi Skogberg, J. Pekka Nuorti, Harri Saxen, Jaana Kusnetsov, Silja Menta, Vineta Fellman, Nina Mäki-Petäys, and Hannele Jousimies-Somer

**Cleaning Patient Shower Facilities: A Novel Approach to Reducing Patient Exposure to Aerosolized *Aspergillus* Species and Other Opportunistic Molds**

Elias J. Anaissie, Shawna L. Stratton, Maria Cecilia Dignani, Choon-Kee Lee, Tahsine H. Mahfouz, John H. Rex, Richard C. Summerbell, and Thomas J. Walsh

***Mycobacterium tuberculosis* Infection Complicated by Eales Disease with Peripheral Neuropathy**

Frank McCaughan, Alison Holmes, William A. Lynn, and Jon S. Friedland

Volume 35 • Supplement 2

15 October 2002

**CDC STD TREATMENT GUIDELINES**

**S135 Introduction: CDC Sexually Transmitted Diseases Treatment Guidelines**

Kimberly A. Workowski and Stuart M. Berman

**S138 The Transformation of Partner Notification**

Richard Rothenberg

**S146 Scabies and Pediculosis Pubis: An Update of Treatment Regimens and General Review**

Karen Wendel and Anne Rompalo

**S152 Indications for Therapy and Treatment Recommendations for Bacterial Vaginosis in Nonpregnant and Pregnant Women: A Synthesis of Data**

Emilia H. Koumans, Lauri E. Markowitz, and Vijaya Hogan, for the CDC BV Working Group

**S173 Serological Testing for Herpes Simplex Virus (HSV)-1 and HSV-2 Infection**

Anna Wald and Rhoda Ashley-Morrow

**S183 Treatment of Uncomplicated Genital *Chlamydia trachomatis* Infections in Adults**

Adaora A. Adimora

**S187 Treatment of Syphilis 2001: Nonpregnant Adults**  
Michael H. Augenbraun

**S191 Ciprofloxacin for the Treatment of Uncomplicated Gonorrhea Infection in Adolescents: Does the Benefit Outweigh the Risk?**  
Gale R. Burstein, Stuart M. Berman, Jeffery L. Blumer, and John S. Moran

**S200 Treatment of Syphilis in Pregnancy and Prevention of Congenital Syphilis**  
George D. Wendel Jr., Jeanne S. Sheffield, Lisa M. Hollier, James B. Hill, Patrick S. Ramsey, and Pablo J. Sánchez

**S210 External Genital Warts: Diagnosis, Treatment, and Prevention**  
D. J. Wiley, John Douglas, Karl Beutner, Tom Cox, Kenneth Fife, Anna-Barbara Moscicki, and Lynne Fukumoto

Volume 35 • Number 9

1 November 2002

**I 1 November News**

**MAJOR ARTICLES**

**1027 Active, Fulminant, Lethal Myocarditis Associated with Parvovirus B19 Infection in an Infant**  
Nikos Papadogiannakis, Thomas Tolfvenstam, Björn Fischler, Oscar Norbeck, and Kristina Brolden

**1032 Revised Clinical Presentation of Parvovirus B19-Associated Intrauterine Fetal Death**  
Oscar Norbeck, Nikos Papadogiannakis, Karin Petersson, Taha Hirbod, Kristina Brolden, and Thomas Tolfvenstam

**1039 Trends in Legionnaires Disease, 1980–1998: Declining Mortality and New Patterns of Diagnosis**  
Andrea L. Benin, Robert F. Benson, and Richard E. Besser

**1047 Epidemiology and Clinical Features of Imported Dengue Fever in Europe: Sentinel Surveillance Data from TropNetEurop**

T. Jelinek, N. Mühlberger, G. Harms, M. Corachán, M. P. Grobusch, J. Knobloch, U. Bronner, H. Laferl, A. Kapaun, Z. Bisoffi, J. Clerinx, S. Puente, G. Fry, M. Schulze, U. Hellgren, I. Gjerrup, P. Chalupa, C. Hatz, A. Matteelli, M. Schmid, L. N. Nielsen, S. da Cunha, J. Atouguia, B. Myrvang, and K. Fleischer for the European Network on Surveillance of Imported Infectious Diseases

**1053 Catheter-Tip Colonization as a Surrogate End Point in Clinical Studies on Catheter-Related Bloodstream Infection: How Strong Is the Evidence?**

Bart J. A. Rijnders, Eric Van Wijngaerden, and Willy E. Peetersmans

**1059 Seroincidence of *Helicobacter pylori* Infection in a Cohort of Rural Bolivian Children: Acquisition and Analysis of Possible Risk Factors**

M. Kathleen Glynn, Cindy R. Friedman, Benjamin D. Gold, Bhawna Khanna, Lori Hutwagner, Naomi Iihoshi, Carmen Revollo, and Robert Quick

**1066 Vaginitis Due to *Candida krusei*: Epidemiology, Clinical Aspects, and Therapy**  
Shivani Singh, Jack D. Sobel, Pallavi Bhargava, Dina Boikov, and Jose A. Vazquez

**ARCANUM**

**1071 The Origin of Quarantine**  
Paul S. Sehdev

**ANTIMICROBIAL RESISTANCE**

**1073 Antifungal Resistance in Pathogenic Fungi**  
Sofia Perea and Thomas F. Patterson

**IMMUNOCOMPROMISED HOSTS**

**1081 Pathogenesis and Management of Polyomavirus Infection in Transplant Recipients**  
Eun Jeong Kwak, Regis A. Vilchez, Parmjeet Randhawa, Ron Shapiro, Janet S. Butel, and Shimon Kusne

**TRAVEL MEDICINE**

**1088 Fungal Infections among Returning Travelers**  
Anil A. Panackal, Rana A. Hajjeh, Martin S. Cetron, and David W. Warnock

## HIV/AIDS

1096 Nevirapine or Lamivudine plus Stavudine and Indinavir: Examples of 2-Class versus 3-Class Regimens for the Treatment of Human Immunodeficiency Virus Type 1  
Odile Launay, Laurence Gérard, Laurence Morand-Joubert, Philippe Flandre, Sonia Guiramand-Hugon, Véronique Joly, Gilles Peytavin, Agnès Certain, Claude Lévy, Stéphane Rivet, Christine Jacomet, Jean-Pierre Aboulker, and Patrick Yéni, for the Agence Nationale de Recherches sur le SIDA (ANRS) 081 Study Group

1106 Drug-Drug Interactions in Inmates Treated for Human Immunodeficiency Virus and *Mycobacterium tuberculosis* Infection or Disease: An Institutional Tuberculosis Outbreak  
P. Spradling, D. Drociuk, S. McLaughlin, L. M. Lee, C. A. Peloquin, K. Gallicano, C. Pozsik, I. Onorato, K. G. Castro, and R. Ridzon

1113 Breast Enlargement in 13 Men Who Were Seropositive for Human Immunodeficiency Virus  
Devon L. Evans, Liron Pantanowitz, Bruce J. Dezube, and David M. Aboulafia

1120 Ineffectiveness of Trimethoprim-Sulfamethoxazole Prophylaxis and the Importance of Bacterial and Viral Coinfections in African Children with *Pneumocystis carinii* Pneumonia  
Shabir A Madhi, Clare Cutland, Kuraisha Ismail, Cathryn O'Reilly, Archana Mancha, and Keith P Klugman

1127 Natural History and Clinical Management of Anal Human Papillomavirus Disease in Men and Women Infected with Human Immunodeficiency Virus  
Peter V. Chin-Hong and Joel M. Palefsky

## CORRESPONDENCE

1135 Reply to Dr. Charlebois et al. (Clin Infect Dis 2002; 34:425-33)  
P. Daly, E. A. Bryce, and J. Buxton

1135 Successful Treatment with Caspofungin of Hepatosplenic Candidiasis Resistant to Liposomal Amphotericin B  
Federica Sorà, Patrizia Chiusolo, Nicola Piccirillo, Livio Pagano, Luca Laurenti, Giuliana Farina, Simona Sica, and Giuseppe Leone

1137 Marked Elevation of the Creatine Phosphokinase Level in a Patient Receiving Tenofovir  
K. D. Shere-Wolfe and J. R. Verley

## ELECTRONIC ARTICLES

### Atovaquone/Proguanil Therapy for *Plasmodium falciparum* and *Plasmodium vivax* Malaria in Indonesians Who Lack Clinical Immunity

Mark D. Lacy, Jason D. Maguire, Mazie J. Barcus, Judith Ling, Michael J. Bangs, Robert Gramzinski, Hasan Basri, Priyanto Sismadi, Gerri B. Miller, Jeffrey D. Chulay, David J. Fryauff, Stephen L. Hoffman, and J. Kevin Baird

### *Escherichia hermannii* Infection of a Cephalohematoma: Case Report, Review of the Literature, and Description of a Novel Invasive Pathogen

Karen M. Dahl, James Barry, and Roberta L. DeBiasi

### Human Monocytic Ehrlichiosis Presenting as Acute Appendicitis During Pregnancy

Ann E. Smith Sehdev, Paul S. Sehdev, Ruth Jacobs, and J. Stephen Dumler

### Colonic Necrosis and Perforation Secondary to *Escherichia coli* O157:H7 Gastroenteritis in an Adult Patient without Hemolytic Uremic Syndrome

Gary R. Kravitz, Kirk Smith, and Liz Wagstrom

### An Unusual Case of Pulmonary Invasive Aspergillosis and Aspergilloma Cured with Voriconazole in a Patient with Cystic Fibrosis

Laura Chow, Neil E. Brown, and Dennis Kunimoto

Volume 35 • Number 10

15 November 2002

i 15 November News

## MAJOR ARTICLES

1139 Risk Factors for Development of Vancomycin-Resistant Enterococcal Bloodstream Infection in Patients with Cancer Who Are Colonized with Vancomycin-Resistant Enterococci  
Aimee K. Zaas, Xiaoyan Song, Pamela Tucker, and Trish M. Perl

**1147 Efficacy of Atovaquone/Proguanil for Malaria Prophylaxis in Children and Its Effect on the Immunogenicity of Live Oral Typhoid and Cholera Vaccines**  
Jean-François Faucher, Ronnie Binder, Michel A. Missinou, Pierre-Blaise Matsiegui, Holger Gruss, Rajko Neubauer, Bertrand Lell, John U. Que, Gerri B. Miller, and Peter G. Kremsner

**1155 Lactobacillus Bacteremia during a Rapid Increase in Probiotic Use of *Lactobacillus rhamnosus* GG in Finland**  
Minna K. Salminen, Soile Tynkkynen, Hilpi Rautelin, Maija Saxelin, Martti Vaara, Petri Ruutu, Seppo Sarna, Ville Valtonen, and Asko Järvinen

**1161 The Role of Bacterial Virulence and Host Factors in Patients with *Escherichia coli* Bacteremia Who Have Acute Cholangitis or Upper Urinary Tract Infection**  
Ming-Cheng Wang, Chin-Chung Tseng, Chiung-Yu Chen, Jiunn-Jong Wu, and Jeng-Jong Huang

**1167 *Mycoplasma genitalium* Infections in Asymptomatic Men and Men with Urethritis Attending a Sexually Transmitted Diseases Clinic in New Orleans**  
Leandro Mena, Xiaofei Wang, Tomasz F. Mroczkowski, and David H. Martin

**1174 Antimicrobial Use and Serotype Distribution of Nasopharyngeal *Streptococcus pneumoniae* Isolates Recovered from Greek Children Younger than 2 Years Old**  
George A. Syrigiannopoulos, George D. Katopodis, Ioanna N. Grivea, and Nicholas G. Beratis

**1183 Crack Cocaine Use and Other Risk Factors for Tuberculin Positivity in Drug Users**  
Andrea A. Howard, Robert S. Klein, Ellie E. Schoenbaum, and Marc N. Gourevitch

**1191 Recommendations for Prevention of and Therapy for Exposure to B Virus (*Cercopithecine Herpesvirus 1*)**  
Jeffrey I. Cohen, David S. Davenport, John A. Stewart, Scott Deitchman, Julia K. Hilliard, Louisa E. Chapman, and the B Virus Working Group

#### **PHOTO QUIZ**

**1204 A 33-Year-Old Woman from Nigeria with Eosinophilia**

#### **AGING AND INFECTIOUS DISEASES**

**1205 Nursing Home–Acquired Pneumonia**  
Joseph M. Mylotte

#### **ANTIMICROBIAL RESISTANCE**

**1212 Antimicrobial-Resistant, Gram-Positive Bacteria among Patients Undergoing Chronic Hemodialysis**  
Erika M. C. D'Agata

#### **HIV/AIDS**

**1219 Switching Effective Antiretroviral Therapy: A Review**  
Henning Drechsler and William G. Powderly

**1231 A Cohort Study of Nevirapine Tolerance in Clinical Practice: French Aquitaine Cohort, 1997–1999**  
F. Bonnet, S. Lawson-Ayayi, R. Thiébaut, R. Ramanamponiy, D. Lacoste, N. Bernard, D. Malvy, M. Bonarek, F. Djossou, J. Beylot, F. Dabis, P. Morlat, and the Groupe d’Épidémiologie Clinique du SIDA en Aquitaine (GECSA)

**1238 Comorbid Conditions, Treatment, and Health Maintenance in Older Persons with Human Immunodeficiency Virus Infection in New York City**  
Sanjiv S. Shah, Joseph P. McGowan, Cheryl Smith, Steve Blum, and Robert S. Klein

**1244 Lipodystrophy in a Cohort of Human Immunodeficiency Virus–Infected Asian Patients: Prevalence, Associated Factors, and Psychological Impact**  
Nicholas I. Paton, Arul Ernest, Yau Ming Ng, Fatimah Karim, and Jamila Aboulhab

**1250 Fatal Immune Restoration Disease in Human Immunodeficiency Virus Type 1–Infected Patients with Progressive Multifocal Leukoencephalopathy: Impact of Antiretroviral Therapy–Associated Immune Reconstitution**  
Amar Safdar, Ronald J. Rubocki, Joseph A. Horvath, Kailash K. Narayan, and Robert L. Waldron

**1258 Effects of Recombinant Human Growth Hormone on Fat Distribution in Patients with Human Immunodeficiency Virus–Associated Wasting**  
Viva W. Tai, Morris Schambelan, Heather Algren, Clara Shayevich, and Kathleen Mulligan

#### **ANSWER TO PHOTO QUIZ**

**1263 A 33-Year-Old Woman from Nigeria with Eosinophilia**

## BRIEF REPORTS

1265 Trends of Multiple-Drug Resistance among *Salmonella* Serotype Typhi Isolates during a 14-Year Period in Egypt

Momtaz O. Wasfy, Robert Frenck, Tharwat F. Ismail, Hoda Mansour, Joseph L. Malone, and Frank J. Mahoney

1269 Risk Factors Associated with the Development of Infection with Linezolid- and Vancomycin-Resistant *Enterococcus faecium*

Manjunath P. Pai, Keith A. Rodvold, Paul C. Schreckenberger, Ronald D. Gonzales, Jennifer M. Petrolatti, and John P. Quinn

## CORRESPONDENCE

1273 The Safety of Voriconazole

Brian A. Potoski and Jack Brown

1275 Assessment of Procalcitonin Levels in Emergency Department Patients

Thibaud d'Escrivan, Eric Kipnis, and Laurent Robiquet

1276 Reply

Pierre Hausfater and Bruno Riou

1276 Straightening of the Hair Is Not Pathognomonic for HIV Infection

Stephen L. Green and Douglas L. Nelson

## BOOK REVIEW

1278 Human Polyomaviruses

Written by Kamel Khalili and Gerald Stoner

Reviewed by Bettie M. Steinberg

1279 ELECTRONIC ARTICLES

**Simvastatin-Nelfinavir Interaction Implicated in Rhabdomyolysis and Death**

C. Bradley Hare, Mai P. Vu, Carl Grunfeld, and Harry W. Lampiris

**A Belgian Traveler Who Acquired Yellow Fever in The Gambia**

R. Colebunders, J.-L. Mariage, J.-Ch. Coche, B. Pirenne, S. Kempinaire, Ph. Hantson, A. Van Gompel, M. Niedrig, M. Van Esbroeck, R. Bailey, C. Drosten, and H. Schmitz

**Molecular Diagnosis of Endocarditis Due to *Lactobacillus casei* subsp. *rhamnosus***

Frédéric Wallet, Rodrigue Dessein, Sylvie Armand, and René J. Courcol

Volume 35 • Number 11

1 December 2002

i 1 December News

## GUIDELINES

1281 Guidelines for the Prevention of Intravascular Catheter-Related Infections

Naomi P. O'Grady, Mary Alexander, E. Patchen Dellinger, Julie L. Gerberding, Stephen O. Heard, Dennis G. Maki, Henry Masur, Rita D. McCormick, Leonard A. Mermel, Michele L. Pearson, Issam I. Raad, Adrienne Randolph, and Robert A. Weinstein

## MAJOR ARTICLES

1308 Nosocomial Infections Occurring during Receipt of Circulatory Support with the Paracorporeal Ventricular Assist System

Armand Mekontso-Dessap, Matthias Kirsch, Emmanuelle Verme, Christian Brun-Buisson, Daniel Loisance, and Rémi Houël

1316 *Candida albicans* Sternal Wound Infections: A Chronic and Recurrent Complication of Median Sternotomy

Preeti N. Malani, Shelly A. McNeil, Suzanne F. Bradley, and Carol A. Kauffman

1321 Predictors of Virologically Confirmed Poliomyelitis in India, 1998–2000

Kathryn A. Kohler, W. Gary Hlady, Kaushik Banerjee, Paul Francis, Sunita Durrani, and Patrick L. F. Zuber

1328 Serodiagnosis of Pulmonary Disease Due to *Mycobacterium avium* Complex with an Enzyme Immunoassay that Uses a Mixture of Glycopeptidolipid Antigens

Seigo Kitada, Ryoji Maekura, Naomi Toyoshima, Nagatoshi Fujiwara, Ikuya Yano, Takeshi Ogura, Masami Ito, and Kazuo Kobayashi

**1336 Emerging Patterns of Hookworm Infection: Influence of Aging on the Intensity of *Necator* Infection in Hainan Province, People's Republic of China**  
Jeffrey Bethony, Jizhang Chen, Shaoxiong Lin, Shuhua Xiao, Bin Zhan, Shangwen Li, Haichou Xue, Fuying Xing, Debbie Humphries, Wang Yan, Grace Chen, Virginia Foster, John M. Hawdon, and Peter J. Hotez

**1345 Characteristics of *Streptococcus pneumoniae* and Atypical Bacterial Infections in Children 2–5 Years of Age with Community-Acquired Pneumonia**  
Susanna Esposito, Samantha Bosis, Roberta Cavagna, Nadia Faelli, Enrica Begliatti, Paola Marchisio, Francesco Blasi, Ciro Bianchi, and Nicola Principi

**1353 An Outbreak of Group A Streptococcal Infection among Health Care Workers**  
Anthony Kakis, Laurel Gibbs, Jose Eguia, Joe Kimura, Diane Vogelei, Nancy Troup, Dennis Stevens, Edward L. Kaplan, Dwight R. Johnson, and John E. Conte, Jr.

**1360 Invasive Infections Due to *Trichoderma* Species: Report of 2 Cases, Findings of In Vitro Susceptibility Testing, and Review of the Literature**  
T. Chouaki, V. Lavarde, L. Lachaud, C. P. Raccut, and C. Hennequin

**1368 The Effect of Age on Immunologic Response to Recombinant Hepatitis B Vaccine: A Meta-analysis**  
David N. Fisman, Deepak Agrawal, and Karin Leder

**1376 Meningococcal Disease among United States Military Service Members in Relation to Routine Uses of Vaccines with Different Serogroup-Specific Components, 1964–1998**  
John F. Brundage, Margaret A. K. Ryan, Brian H. Feighner, and Frederick J. Erdmann

#### **REVIEW ARTICLE**

**1382 Preventing Hepatitis A and Hepatitis B Virus Infections among Men Who Have Sex with Men**  
James Kahn

#### **PHOTO QUIZ**

**1388 A Traveler's Chronic Rash**

#### **AGING AND INFECTIOUS DISEASES**

**1390 Infected Pressure Ulcers in Elderly Individuals**  
Nigel J. Livesley and Anthony W. Chow

#### **HEALTHCARE EPIDEMIOLOGY**

**1397 Nonpharmacological Prevention of Surgical Wound Infections**  
Daniel I. Sessler and Ozan Akça

#### **HIV/AIDS**

**1405 Short-Course Therapy with Zidovudine Plus Lamivudine for Prevention of Mother-to-Child Transmission of Human Immunodeficiency Virus Type 1 in Thailand**  
Pongsakdi Chaisilwattana, Kulkanya Chokephalibulkit, Amphan Chalermchockcharoenkit, Nirun Vanprapar, Korakot Sirimai, Sanay Chearskul, Ruengpung Suthtent, and Nisarat Opartkiattikul

**1414 Prevalence and Predictors of *Toxoplasma* Seropositivity in Women with and at Risk for Human Immunodeficiency Virus Infection**  
Oluwatoyin Falusi, Audrey L. French, Eric C. Seaberg, Phyllis C. Tien, D. Heather Watts, Howard Minkoff, Eva Piessens, Andrea Kovacs, Kathryn Anastos, and Marge H. Cohen

#### **ANSWER TO PHOTO QUIZ**

**1418 A Traveler's Chronic Rash**

#### **BRIEF REPORTS**

**1420 Hematospermia Due to Schistosome Infection in Travelers: Diagnostic and Treatment Challenges**  
Eli Schwartz, Neora Pick, Gila Shazberg, and Israel Potasman

**1425 Treatment of Severe Diphtheritic Myocarditis by Temporary Insertion of a Cardiac Pacemaker**  
Nguyen Minh Dung, Rachel Kneen, Nguyen Kiem, Delia B. Bethell, Nguyen Hoan Phu, Tom Solomon, Tran Thi Hong Chau, Nguyen Thi Hoang Mai, Nicholas P. J. Day, and Nicholas J. White

**1430 High Rate of Monoclonal Gammopathy among Immunocompetent Subjects with Primary Cytomegalovirus Infection**  
Susi Bühler, Kalevi Laitinen, Harry Holthöfer, Asko Järvinen, Knut-Olof Schauman, and Klaus Hedman

**1434 Corynebacterium Species Isolated from Patients with Mastitis**  
Sue Paviour, Sahar Musaad, Sally Roberts, Graeme Taylor, Susan Taylor, Keith Shore, Selwyn Lang, and David Holland

**1441 Toxic Shock Syndrome Due to *Clostridium sordellii*: A Dramatic Postpartum and Postabortion Disease**  
Christian Sinave, Geneviève Le Templier, Daniel Blouin, François Léveillé, and Éric Delant

#### **CORRESPONDENCE**

**1444 Left Ventricular Dysfunction and Treatment of Fulminant Enterovirus 71 Infection**  
Luan-Yin Chang, Shao-Hsuan Hsia, Yhu-Chering Huang, and Tzou-Yien Lin

**1444 Reply**  
Fang-Liang Huang, Sheng-Ling Jan, Po-Yen Chen, Yun-Ching Fu, and Ching-Shiang Chi

**1445 Vancomycin-Resistant Enterococcal Bacteremia**  
John M. Boyce

**1446 Reply**  
Thomas P. Lodise, Jr., and Peggy S. McKinnon

**1446 Use of Appropriate Breakpoints in Antimicrobial Surveillance Studies**  
Michael R. Jacobs, Laura M. Koeth, and Peter C. Appelbaum

**1448 Reply**  
Clyde Thornsberry, Daniel F. Sahm, Ian A. Critchley, Mark E. Jones, Alan T. Evangelista, and James A. Karlowsky

**1449 Acute Parvovirus B19 Infection and Anemia during *Plasmodium falciparum* Malaria**  
Francesco Scarlata, Erika Gianelli, Silvana Miceli, Laura Galimberti, and Spinello Antinori

**1451 Molecular Approaches to Differentiation of W135 *Neisseria meningitidis* Strains in Croatia**  
Arijana Boras, Bernard Kaic, Ivo Ivic, Susanna Schmink, Claudio T. Sacchi, Volga Punda-Polic, and Tanja Popovic

**1452 Astrovirus-Associated Diarrhea in South African Adults**  
Cara T. Pager and A. D. Steele

**1453 Invasive Group A *Streptococcus* Disease**  
Zuber D. Mulla

#### **BOOK REVIEW**

**1454 Viral Co-infections in HIV: Impact and Management**  
Edited by Jacob Lalezari and Graeme Moyle  
Reviewed by Lisa G. Kaplowitz

**1455 Erratum**

Volume 35 • Number 12

15 December 2002

i 15 December News

#### **MAJOR ARTICLES**

**1457 *Clostridium difficile*-Associated Diarrhea: Epidemiological Data from Western Australia Associated with a Modified Antibiotic Policy**  
Claudia Thomas, Mark Stevenson, D. James Williamson, and Thomas V. Riley

**1463 Methodology for Clinical Trials Involving Patients with Cancer Who Have Febrile Neutropenia: Updated Guidelines of the Immunocompromised Host Society/Multinational Association for Supportive Care in Cancer, with Emphasis on Outpatient Studies**  
Ronald Feld, Marianne Paesmans, Alison G. Freifeld, Jean Klastersky, Philip A. Pizzo, Kenneth V. I. Rolston, Edward Rubenstein, James A. Talcott, and Thomas J. Walsh

1469 **Efficacy and Safety of Dihydroartemisinin-Piperaquine (Artekin) in Cambodian Children and Adults with Uncomplicated *Falciparum* Malaria**  
Mey Bouth Denis, Timothy M. E. Davis, Sean Hewitt, Sandra Incardona, Khim Nimol, Thierry Fandeur, Yi Poravuth, Chiv Lim, and Doung Socheat

1477 **Molecular Diversity and Routes of Colonization of *Candida albicans* in a Surgical Intensive Care Unit, as Studied Using Microsatellite Markers**  
François Stéphan, Mamadou Sialou Bah, Christophe Desterke, Saïda Rézaiguia-Delclaux, Françoise Foulet, Philippe Duvaldestin, and Stéphane Bretagne

1484 **Epidemiology of Bloodstream Infection in Nursing Home Residents: Evaluation in a Large Cohort from Multiple Homes**  
Joseph M. Mylotte, Ammar Tayara, and Susan Goodnough

1491 **The Effect of Renal Dysfunction on Antimicrobial Use Measurements**  
B. M. Zagorski, W. E. Trick, D. N. Schwartz, M. F. Wisniewski, R. C. Hershaw, S. K. Fridkin, and R. A. Weinstein

1498 **Treatment of Uncomplicated Multidrug-Resistant *Falciparum* Malaria with Artesunate-Atovaquone-Proguanil**  
Michèle van Vugt, Elisabetta Leonardi, Lucy Phaipun, Thra Slight, Kyaw Lay Thway, Rose McGready, Alan Brockman, Leopoldo Villegas, Sornchai Looareesuwan, Nicholas J. White, and François Nosten

## VIEWPOINTS

1505 **Widespread Use of Fluoroquinolones Versus Emerging Resistance in Pneumococci**  
Ellie J. C. Goldstein and Susan M. Garabedian-Ruffalo

## PHOTO QUIZ

1512 **A 32-Year-Old Brazilian Woman with Severe Headache and Fever**

## IMMUNOCOMPROMISED HOSTS

1513 **Recipient Screening Prior to Solid-Organ Transplantation**  
Robin K. Avery

## HIV/AIDS

1520 **Approaching Eradication of Highly Active Antiretroviral Therapy—Persistent Human Immunodeficiency Virus Type 1 Reservoirs with Immune Activation Therapy**  
Joseph Kulkosky and Roger J. Pomerantz

1527 **Efficacy of Induction Therapy with High-Dose Interferon for Patients with Hemophilia and Human Immunodeficiency Virus–Hepatitis C Virus Coinfection**  
Hideji Hanabus

1534 **Thrombotic Microangiopathy in Patients with Acquired Immunodeficiency Syndrome Before and During the Era of Introduction of Highly Active Antiretroviral Therapy**  
Cristina Gervasoni, Anna Lisa Ridolfo, Mauro Vaccarezza, Carlo Parravicini, Luca Vago, Fulvio Adorni, Anna Cappelletti, Antonella d'Arminio Monforte, and Massimo Galli

1541 **The Effect of Race/Ethnicity on the Outcome of Highly Active Antiretroviral Therapy for Human Immunodeficiency Virus Type 1-Infected Patients**  
Søren Jensen-Fangel, Lars Pedersen, Court Pedersen, Carsten Schade Larsen, Palle Tauris, Axel Møller, Henrik Toft Sørensen, and Niels Obel

## ANSWER TO PHOTO QUIZ

1549 **A 32-Year-Old Brazilian Woman with Severe Headache and Fever**

## BRIEF REPORTS

1551 **Regional Occurrence of Plasmid-Mediated SHV-7, an Extended-Spectrum  $\beta$ -Lactamase, in *Enterobacter cloacae* in Philadelphia Teaching Hospitals**  
Matthew E. Levison, Yamini V. Mailapur, Sandeep K. Pradhan, George A. Jacoby, Pamela Adams, Christopher L. Emery, Phyllis L. May, and Peter G. Pitsakis

1555 ***Helicobacter* Species Ribosomal DNA Recovered from the Liver Tissue of Chinese Patients with Primary Hepatocellular Carcinoma**  
Xue-Gong Fan, Xiao-Ning Peng, Yan Huang, Javed Yakoob, Zhi-Ming Wang, and Yong-Ping Chen

1558 **Papular Purpuric Rash Due to Parvovirus B19 with Distribution on the Distal Extremities and the Face**  
Liora Harel, Ilan Straussberg, Abraham Zeharia, Dario Praiss, and Jacob Amir

**1562 Prospective Immunogenicity Study of Multiple Intradermal Injections of Rabies Vaccine in an Effort to Obtain an Early Immune Response without the Use of Immunoglobulin**

Pakamatz Khawplod, Henry Wilde, Saovaluk Tepsumethanon, Sukunya Limusanno, Tanpetch Tantawichien, Pranee Chomchey, Ampai Bungjongkasena Na Ayuthaya, and Yongyuth Wangroonsarb

**1566 Amputation-Sparing Treatment by Nature: "Surgical" Maggots Revisited**

G. N. Jukema, A. G. Menon, A. T. Bernards, P. Steenvoorde, A. Taheri Rastegar, and J. T. van Dissel

#### **CORRESPONDENCE**

**1572 Does the Use of Fluoroquinolones for the Empiric Treatment of Pneumonia Delay Initiation of Treatment of Tuberculosis?**

Homer Abiad

**1572 Reply**

Kelly E. Dooley, Jonathan Golub, and Timothy R. Sterling

**1573 Practical Aspects of Choosing Antibiotic Therapy for Patients with a Reported Antibiotic Allergy**

James R. Johnson

**1574 Reply**

Joan L. Robinson and Stuart Carr

**1574 Pulmonary Tuberculosis Presenting as Community-Acquired Pneumonia**

Deborah S. Asnis, Siby Cherian, Tong Sun, Shravan Shrestha, and Thomas Santucci, Jr.

**1576 Clinical Manifestations of Discordance between Cerebrospinal Fluid and Plasma HIV-1 Loads**

Elizabeth R. Jenny-Avital and Cathy Chuang

**1577 Urban Trench Fever in a Healthy Man from the Southeastern United States**

Amar Safdar

#### **BOOK REVIEW**

**1578 Clinical Virology, 2nd Edition**

Edited by Douglas D. Richman, Richard J. Whitley, and Frederick G. Hayden

Reviewed by David M. Koelle

**1578 New Books Received**

#### **1580 ELECTRONIC ARTICLES**

**Clinical and Economic Outcomes of Conventional Amphotericin B-Associated Nephrotoxicity**

Stephan Harbarth, John P. Burke, James F. Lloyd, R. Scott Evans, Stanley L. Pestotnik, and Matthew H. Samore

**Immune Reconstitution Cryptococcosis after Initiation of Successful Highly Active Antiretroviral Therapy**

Elizabeth R. Jenny-Avital and Maria Abadi

**$\gamma\delta$  T Lymphocytosis Associated with Granulomatous Disease in a Patient with Common Variable Immunodeficiency**

Jean-François Viallard, Coralie Bloch-Michel, Olivier Caubet, Marie Parrens, Jeannette Texier-Maugein, Martine Neau-Cransac, Jean-Luc Taupin, Jean-François Moreau, and Jean-Luc Pellegrin

**Cystic Fibrosis and *Burkholderia pseudomallei* Infection: An Emerging Problem?**

David James Holland, Alison Wesley, Dragana Drinkovic, and Bart J. Currie

**Vertebral Osteomyelitis Due to *Bartonella henselae* in Adults: A Report of 2 Cases**

Renaud Verdon, Loïk Geffray, Thierry Collet, Hervé Huet, Jean-Jacques Parienti, Monique Debruyne, Michel Vergnaud, and Claude Bazin

**1581 Reviewers for 2002**